Remarks:

Reconsideration of the application is requested.

Claims 1-5 and 9 are now in the application. Claims 1, 4, and 5 have been amended. A marked-up version of the claims is attached hereto on separate pages. Independent claim 9 has been added. Claim 6 has been cancelled.

In item 3 on page 2 of the above-identified Office action, the drawings have been objected to under 37 CFR 1.83(a). The Examiner stated that "the means for rotating said cutting cylinder and said transfer cylinder" as set forth in claim 5, and the "means for rotating said transfer cylinder" as set forth in claim 6 must be shown or the feature(s) cancelled from the claim(s). Claim 5 has been amended so as to overcome the objection to the drawings by the Examiner. Claim 6 has been cancelled.

In item 4 on page 3 of the Office action, claims 1-6 have been rejected as being indefinite under 35 U.S.C. § 112.

More specifically, the Examiner has stated that in claim 1, line 3, "cutting cylinder" is vague and indefinite and appears to be inaccurate because the disclosed feature is not cylindrical, and thus the scope of the limitation using this

change "cutting cylinder" to --rotary cutter-- or the like.

The claims have been amended to overcome the rejection. The term "cutting cylinder" has been replaced with the term "rotary cutter". However, it is noted for the record that the term "cutting cylinder" is not inaccurate in the context. The term cylinder as defined in Chamber's Technical Dictionary on page 220, enclosed with this amendment, defines a cylinder as a solid uniform cross-section which may be generated by a straight line moving round a closed curve and remaining parallel to a given direction. Apparently, what the Examiner deems as a cylinder is actually a "right circular cylinder" for which the closed curve is a circle whose plane is perpendicular to the axis of the cylinder.

The Examiner further stated that in claim 4, the recitation "each connected to" renders the claim vague and indefinite, particularly since it seems that the gripper and tucking blade are each part of the transfer cylinder and it's not clear how they can be both part of and connected to the transfer cylinder. Claim 4 has been amended so as to overcome the rejection.

It is accordingly believed that the specification and the claims meet the requirements of 35 U.S.C. § 112, first and second paragraphs. Should the Examiner find any further

objectionable items, counsel would appreciate a telephone call during which the matter may be resolved. The above-noted changes to the claims are provided solely for the purpose of satisfying the requirements of 35 U.S.C. § 112. The changes are not provided for overcoming the prior art nor for any reason related to the statutory requirements for a patent.

In item 6 on page 4 of the Office action, claims 1-6 have been rejected as being fully anticipated by Barber (U.S. Patent No. 2,222,279) under 35 U.S.C. § 102.

In item 7 on page 4 of the Office action, claims 1, 3, 5, and 6 have been rejected as being fully anticipated by Elsner et al. (U.S. Patent No. 5,363,728) under 35 U.S.C. § 102.

As will be explained below, it is believed that the claims were patentable over the cited art in their original form and the claims have, therefore, not been amended to overcome the references.

Before discussing the prior art in detail, it is believed that a brief review of the invention as claimed, would be helpful.

Claim 1 calls for, inter alia:

"an adjustable diameter portion disposed in said circumferential region of said transfer cylinder, said adjustable diameter portion being movable in a direction toward and away from said central cylinder axis, said adjustable diameter portion adjusting the desired cutoff length of the signatures."

The Barber reference discloses handling two different sized products of a rotary web printing press, one where the form cylinder is an even number of plates around and the other where the form cylinder is an odd number of plates around (page 1, column 1, lines 1-6). Barber discloses two independently operating units, each used for a different size signature, where only one unit is operational at any given time (page 1, column 1, lines 7-25).

Clearly, the reference does not show an adjustable diameter portion disposed in the circumferential region of the transfer cylinder for adjusting the desired cutoff length of the signatures, as recited in claim 1 of the instant application. Barber discloses handling of only two different sized signatures, each of which is handled by a separate unit while the other unit is not operational. Barber does not disclose any kind of adjusting of a transfer cylinder to produce signatures of varying length. This is completely contrary to the invention of the instant application, in which adjusting

the adjustable diameter portion can produce signatures of varying length by merely adjusting the adjustable diameter portion.

The Elsner et al. reference discloses a web cutter with a knife roll (12) located above an anvil roll (14). The knife roll contains a plurality of fixed cutting knives (32) and the anvil roll (14) contains a plurality of fixed anvils (40) for cutting signatures of a constant length. The anvil roll also includes a lift plate (42) located immediately upstream of each anvil (40) (column 2 lines 40-62). The lift plates (42) are provided for the purpose of raising the severed lead end of the web above the anvil (40), in order to assure proper feeding to the discharge conveyor over guideplate (26). The Elsner et al. reference further discloses that after the cut is made by the cutting knives (32) and the anvils (40) the lead edge (56) of the lift plate (42) engages the lower surface of the web and holds the web against the adjacent edge of the knife roll (12) (column 3, lines 31-37).

Clearly, the reference does not show an adjustable diameter portion disposed in the circumferential region of the transfer cylinder for adjusting the desired cutoff length of the signatures, as recited in claim 1 of the instant application. The Elsner et al. reference discloses a web cutter for cutting webs of constant length, the lift plate (42) provided by the

reference is used only for the purpose of raising the severed lead end of the web above the anvil (40), in order to assure proper feeding to the discharge conveyor over guideplate (26). The lift plate is in no way used to vary the length of the signature, as it does not contact the lower surface of the web until after the cut is made. This is completely contrary to the invention of the instant application, in which adjusting the adjustable diameter portion can produce signatures of varying length.

It is accordingly believed to be clear that none of the references, whether taken alone or in any combination, either show or suggest an adjustable diameter portion disposed in the circumferential region of the transfer cylinder, the adjustable diameter portion being movable in a direction toward and away from the central cylinder axis, the adjustable diameter portion adjusting the desired cutoff length of the signatures, as recited in claim 1 of the instant application. Claim 1 is, therefore, believed to be patentable over the art and since all of the dependent claims are ultimately dependent on claim 1, they are believed to be patentable as well. Claim is patentable on similar grounds as claim 1.

In view of the foregoing, reconsideration and allowance of claims 1-5 and 9 are solicited.

In the event the Examiner should still find any of the claims to be unpatentable, counsel respectfully requests a telephone call so that, if possible, patentable language can be worked out.

Please charge any other fees which might be due with respect to Sections 1.16 and 1.17 to the Deposit Account of Lerner & Greenberg P.A., No. 12-1099.

Respectfull

submitte

PAURENCE A. GREENBERG REG. NO. 29,308

For Applicant(s)

AKD:cgm

March 21, 2002

Lerner and Greenberg, P.A. Post Office Box 2480 Hollywood, FL 33022-2480

Tel: (954) 925-1100 Fax: (954) 925-1101 HEM 98/644 (HA-2494)

Marked-up version of the claims:

Claim 1 (twice-amended). A variable length cutting device, comprising:

a [cutting cylinder] rotary cutter;

a transfer cylinder cooperating with said [cutting cylinder]

rotary cutter for cutting a ribbon into signatures having a

desired cutoff length, said transfer cylinder having a central

cylinder axis and a circumferential region; and

an adjustable diameter portion disposed in said circumferential region of said transfer cylinder, said adjustable diameter portion being movable in a direction toward and away from said central cylinder axis [for] ,said adjustable diameter portion adjusting the desired cutoff length of the signatures.

Claim 4 (amended). The cutting device according to claim 1, including a gripper and a tucking blade each [connected]

mounted to said transfer cylinder and disposed in said circumferential region at a fixed distance from said central

cylinder axis, and said adjustable diameter portion being located between said gripper and said tucking blade.

Claim 5 (twice-amended). The cutting device according to claim 1, including a cutting blade fixed to said [cutting cylinder] rotary cutter and a cutting ledge disposed in said circumferential region of said transfer cylinder for cooperating with said cutting blade[, and means for rotating said cutting cylinder and said transfer cylinder in synchronism].

Claim 9 (new). A variable length cutting device, comprising:

a rotary cutter;

a transfer cylinder cooperating with said rotary cutter for cutting a ribbon into signatures having a desired cutoff length, said transfer cylinder having a central cylinder axis and a circumferential region carrying the ribbon during a cutting operation; and

an adjustable diameter portion disposed in said

circumferential region of said transfer cylinder, said

adjustable diameter portion being movable in a direction

toward and away from said central cylinder axis, said

adjustable diameter portion adjusting the desired cutoff

length of the signatures by selectively shortening and
lengthening the circumferential region carrying the ribbon.

CHAMBERS'S

TECHNICAL DICTIONARY

Edited by C. F. TWENEY

L. E. C. HUGHES A.C.G.I., D.I.C., B.Sc.(Eng.), Ph.D., M.I.E.E., F.R.S.A.

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* 1961

cyclohexane (Chem.). C₄H₁₁, m.p. 2° C., b.p. 81° C., sp. gr. 0.78, a colourless liquid, of mild chereal odour. Cyclohexanol (Chem.). C. H11.0H, m.p. 16° C., p. 160° C., sp. gr. 0.945, an oily, colourless

cyclohexanone (Chem.). Keto-hexamethylene, P.p. 154-156° C., sp. gr. 0-945, a colouriss liquid, of acctone-like odour, solvent for celliciose lacquera. cycloparafina (Chem.). See cyclangs. Cyclocorlia (Zool.). See pentamethylene. Investine.

Threatine.

Tyclogram (Elec. Eng.). The figure produced on the screen of a cyclograph.

Tyclograph (Elec. Eng.). An instrument in which a beam of lights of cathod, rays is madele move right-anglesty, one of two controlling forces at right-anglesty, each other, thereby producing a closed figure (cyclogram) on the screen.

Syclogyro (Arro.). A rotocraft depending for its lift on power-driven rotors rotating on horizontal axes.

cycloid. The curved path traced out by a point on the circumference of a circle which rolls along

a straight line.

cycloid (Paychiaty). A periodic state of alternating moods, swhight from depression to taillaration; accompanted by a social extraverted type of presonality. It occurs in the pyinte (iv.) type of individual and is a normal disposition; a manic depressive psychosis, and disposition; a manic depressive psychosis, or insanty, scales which have an eventy curved free border. Gycloid (Zool.). Evenly curved free border. Gycloid teeth (Kng.). Curveted feeth whose cycloid consist of the disposition of the state of the distance trivelled. Cyclomy artisticated the different state of the distance trivelled. Cyclomy artisticated the different considerable pressure gradient, in which the damage. Cyclone (Artecor). See Dolloida.

Cyclomy artisticano force and often do much damage. Cyclones occur, principally towards the the great occasis, round the western borders of the distant the watern borders of considerable pressure gradient, in which the damage. Cyclones occur, principally towards the the great occasis, round the western borders of corens.

cyclone (Mining). (1) A content dry-air classifier for air-sizing finely powdered material.—(2) A dust

Cyclope an (Build.). A name given to ancient dry.

masonry works in which the stones are colossal
and are irregular in size.

Cyclopic gita (Mrd.). Paralysis of the ciliary muscle.

Cyclopid farva (Zool.). A larval type of certain
Elymenopera which bears a superficial resemblance
Cycloram's (Ginema.). The portion of dome,
back of a stage in a theatre, and on which light
Cyclorais uch as clouds, are projected.

Cyclorais (Biol.). The circulation of protoplasm
within a cell.

cyclosper mous (Bot.). Having the embryo colled round the endosperm.
cyclospon dylous (Zool.). Showing partial calcification of cartillaginous vertebral centra in the form

of concentric rings.

cyclothy mis (Mcd.). Manic-depressive psychosis, cyclothy mis (Mcd.). Manic-depressive psychosis, cyclothor (Thermionich). An arrangement of two dees in the field of a powerful magnet, in which a beam of charged particles of atomic magnitude is constrained to move in a spiral and is continuously accelerated by the alternating high frequency potential difference applied to the dees.

Cyclippid ca (Zool.). An order of Tentaculate the

members of which are spherical or cylindrical in form, and possess two tentacles, retractile into sheaths.

in cyelsi (lobutt.) Pregnancy.

Cylinder. A solid of uniform cross-section which may be generated by a straight line moving may be generated by a straight line moving frow which the closed curve and remaining parallel to a given direction (the axis). What is usually for which the closed curve is a cited whose place.

If or which the closed curve is a cited whose place cylinder (Enp.). The tubular chamber in which the platon of an engine or pump reciprocates; the internal diameter is called the bore, cylinder hartel (Enp.). The wall of an engine cates; the internal diameter is called the bore, cylinder and situated the head or covers.

Cylinder barel (Enp.). The wall of an engine criting cdge, used for precise boring.

Cylinder bore (Enp.). See Cylinder (Enp.). Cylinder consent (Cir. Enp.).

Cylinder bore (Enp.). See Cylinder (Enp.). See Cylinder con to po of another, so that there is always one above water-level, while the bottom proceeds within the cylinder, the loaded sections always one above water-level, while the bottom proceeds within the cylinder, the loaded sections dopth, the cylinder is allied with concrete.

Cylinder cover (Enp.). The end cover of cylinder of reciprocating engine or compressor.

Cylinder escapement (Howal). The end cover of cylinder escapement (Howal). The end cover of cylinder escapement (Howal). A fictional or the cylinder, and a choth of the escape wheel gives inpulse to the cylinder, the action being that of a wedge. The scape wheel is locked by or harde of the cylinder, and a death of the cylinder. The scape wheel is considered the country of the testh hat of a wedge. The scape wheel is considered the country of the testh hat of the wedge. The scape wheel is considered the cylinder, and a death of the cylinder. The cylinder is cylinder is cylinder is cut away where the entry of the beath hat the wedge. The testh hat cylinder, and a death and the cylinder to the cylinder is cut away where the

cylinder head (Eng.). The closed end of the nay be either indegral with the harrel or detached an indernal-combustion engine; it able, and sometimes carries the valves.

cylinder oils (Lubricants). Dark or red oils and internal-combustion engine or ylinder.

In which pressure is applied by means of a rolling cylinder printing machines from land presses and cylinder printing machines from land presses and cylinder of the cylind

cylindrical gauge (Eng.). A length gauge of cylindrical form whose length and diameter are cylindrical form whose length and diameter are cylindrical grinding (Eng.). The operation of speed abrasive wheel. The work is rotated by the headstock of the machine and the wheel is anto-matically traversed along it under a copious flow

of cooling.

Cylindrical lens (Photor.). A lens cut in the shape of a segment of a cylinder, i.e. a shape generated by a straight line moving parallel to ideal and trading an arc of a dreis on a normal plane. Used to obtain a line image, as in sound

recording on film or in reproducing from a sound cylindrical record (Acous). The Edison-type of gramophone record, in which the reproducing needle traverses a spiral (helical) record on its

electric methins in which the wholings are placed the selectric methins in which the wholings are placed it slots around the periphery, so that the surface is cylindrical. For core-type transformers; it consists of a single coil of one or more layer transformers; it consists of a single coil of one or more layer transformers; it consists of a single coil of one or more layer transformers; it consists of a single coil of one or more layer transformers; it consists of a single coil of one or more layer transformers; it consists of a single coil of one or more layer transformers; it is usually long compact with the from core; it is usually long compact with the alement; it is regificative (Min.). A complex supplied of lead, it, and rather (Min.). A complex supplied of lead, it or crystal system is not known for certain.

Cylin droscope (Thotog.). A cylindrical apparatus cyst ma (Arch.). A much-used mouding abowing a reverse curve in profile. Also called an ooss. Cyst where care a confirmer and concave of the cyst which is convex at the lob and concave at the cyst which is convex at the lob and concave at the cyst which is convex at the lob and concave at the cyst and the constant the constant cyst.

cymblion (Bot.). Shaped like a boat.
cymblum (Zoot.). In some male Spiders, the cup-shaped tarsus of the pedipalpus, containing the palpal organ.
cyme (Bot.). An inforescence in which the main asis and in a flower, and in which subsequent cy flowers are produced at the ends of internal axes or of successive branches from these.—adj. cy

cypress knee (Bot.). A vertical upgrowth from the roots of the swamp cypress. It is very loose in structure, and acts as a pneumatophore.

Cyp Sela (Bot.). A one-sected fruit, formed from a syncarpous, laterior overy.

Syst., cysto. (Greek kyrit, bladder). A prefix used in the construction of compound terms; e.g. cysticoloud (47. v.).

Cyst (Zool.). A non-living membrane enclosing a cell or cells: any bladder-like structure, as the gall-bladder or the urinary bladder of Vortoneres: a sec containing the products of in flammakion.—ddi, cystic, cy

bladder is but slightly developed and may possess

a tail-like appendage.

g cysticerces (1844). Infection with cysticerci.
g cysticercus (2604). A bindderwom possessing a well-daveloped blader, with one scolex.
gystic-lous (2604). Gyst-inhabiting.
cystic-lous (2604). Gyst-inhabiting and property of hyph courting a anong the basidia of the hymnenium of some Hymnensyciac, usually projecting beyond the surface of the hymnenium.

cys'toscope (Surg.). An instrument for inspecting the interior of the bladder. cyston (2004.). A dactylozoold specialised for excretion. and organic material, present in some

axis eads in a flower, and in which subsequent cystoso copy (Surg.). The impection of the interior of the bladder with a cystoscope.

The flowers are produced at the earls of lateral axes of of the bladder with a cystoscope.

The flowers are produced at the earls of lateral axes of or successive branches from these,—ad.

The flowers are produced at the earls of lateral axes of successive branches from these,—ad.

The flowers are produced at the heart of the bladder with a cystoscope.

The flowers are produced at the heart of the bladder cystosowic eter (Radio). An early form of successive flowers are on partial or an early form of wavements, computation of an pointed by the glowing of a cystosowic flower.

The flowers are of the sem-minent cystosowic flowers are on the successive and therefore in the form of schopes (Radio). An obsolete term for any expection of compound terms; cytosowic flowers are flowers.

The flowers are one flowers are carfed to the held.

The flowers are one flowers are carfed to the held.

The flowers are one flowers are carfed to the held.

The flowers are carfed to the held.

Th

cyto-architecton'ic (Med.). Pertaining to the disposition of cells in a tissue.

gracehoris's must (Zool.). In experimental embryoday, partial separation of cells after one division and prior to the next division. A group of haemochromogens (q.v.) very widely distributed in living cells and of great importance in cell oxidations, acting as intermediate hydrogen carriers.

cytode (Biol.). A mass of protoplasm without a

ordens.

cytodae'rests (C/t.). See mitosts.

cytodany (C/t.). (Conjugation or union of cells.

See conjugation.

cytogar-cells (C/t.). The formation and development of cells.